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=> s thielavia  
L1 745 THIELAVIA

=> s l1 (5a)(endoglucanase or cellulase)  
L2 52 L1 (5A)(ENDOGLUCANASE OR CELLULASE)

=> s l1 (10a)(endoglucanase or cellulase)  
L3 69 L1 (10A)(ENDOGLUCANASE OR CELLULASE)

=> dup rem l3  
PROCESSING COMPLETED FOR L3  
L4 40 DUP REM L3 (29 DUPLICATES REMOVED)

=> d 1-10

L4 ANSWER 1 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:308522 HCAPLUS  
DN 140:333598  
TI Protein and cDNA sequences of glycoside hydrolase 61 family from Thielavia  
terrestris, Coprinus cinereus and Humicola insolens and their uses in  
preparing edible products  
IN Schnorr, Kirk Matthew; Landvik, Sara; Spendler, Tina; Christensen, Lars  
Lehmann Hylling  
PA Novozymes A/S, Den.  
SO PCT Int. Appl., 59 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004031378	A2	20040415	WO 2003-DK646	20031001
	WO 2004031378	A3	20040506		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	DK 2002-1459	A	20021001		
	DK 2003-1096	A	20030722		

L4 ANSWER 2 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
DUPLICATE 1  
AN 1998-06599 BIOTECHDS  
TI New cellulase enzyme variants;  
enzyme engineering  
AU Andersen K V; Schyelele M; Christiansen L; Damgaard B  
PA Novo-Nordisk  
LO Bagsvaerd, Denmark.

PI WO 9812307 26 Mar 1998  
AI WO 1997-DK393 17 Sep 1997  
PRAI DK 1996-1013 17 Sep 1996  
DT Patent  
LA English  
OS WPI: 1998-217251 [19]

L4 ANSWER 3 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1997:159095 HCAPLUS  
TI Characterization of fungal cellulases for fiber modification.  
AU Schulein, M.; Lange, L.; Lassen, S. F.; Kaupinen, M. S.; Andersen, L. N.;  
Klysner, S.; Nielsen, J. B.  
CS Novo Nordisk A/S, Bagsvaerd, DK 2880, Den.  
SO Book of Abstracts, 213th ACS National Meeting, San Francisco, April 13-17  
(1997), CELL-052 Publisher: American Chemical Society, Washington, D. C.  
CODEN: 64A0AA  
DT Conference; Meeting Abstract  
LA English

L4 ANSWER 4 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1996:718350 HCAPLUS  
DN 126:3771  
TI Mol. screening and PCR cloning of novel endoglucanases from fungi for use  
as detergents, textile treatment, and paper pulp processing  
IN Schulein, Martin; Andersen, Lene Nonboe; Lassen, Soeren Flensted;  
Kauppinen, Markus Sakari; Lange, Lene; Nielsen, Ruby Ilum; Ihara, Michiko;  
Takagi, Shinobu  
PA Novo Nordisk A/s, Den.  
SO PCT Int. Appl., 406 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9629397	A1	19960926	WO 1996-DK105	19960318
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	CA 2214116	AA	19960926	CA 1996-2214116	19960318
	AU 9649394	A1	19961008	AU 1996-49394	19960318
	AU 715423	B2	20000203		
	EP 815209	A1	19980107	EP 1996-905762	19960318
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	CN 1182451	A	19980520	CN 1996-193494	19960318
	BR 9607646	A	19980616	BR 1996-7646	19960318
	JP 11502701	T2	19990309	JP 1996-527993	19960318
	JP 3360830	B2	20030107		
	NZ 303162	A	20000128	NZ 1996-303162	19960318
	US 6001639	A	19991214	US 1996-651136	19960521
	US 6387690	B1	20020514	US 1999-229911	19990113
	US 2003054539	A1	20030320	US 2001-7521	20011210
PRAI	DK 1995-272	A	19950317		
	DK 1995-885	A	19950808		
	DK 1995-886	A	19950808		
	DK 1995-887	A	19950808		
	DK 1995-888	A	19950808		
	DK 1996-137	A	19960212		
	WO 1996-DK105	W	19960318		
	US 1996-651136	A3	19960521		
	US 1999-229911	A1	19990113		
OS	MARPAT 126:3771				

L4 ANSWER 5 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 2  
AN 95:190979 SCISEARCH  
GA The Genuine Article (R) Number: QL109  
TI ISOLATION AND PROPERTIES OF A THERMOSTABLE \*\*\*ENDOGLUCANASE\*\*\* FROM A  
THERMOPHILIC MUTANT STRAIN OF \*\*\*THIELAVIA\*\*\* -TERRESTRIS  
AU KVESITADZE E G (Reprint); LOMITASHVILI T B; KHUTSISHVILI M P; LAMED R;  
BAYER E A  
CS GEORGIAN ACAD SCI, INST PLANT BIOCHEM, TBILISI 380059, REP OF GEORGIA  
(Reprint); TEL AVIV UNIV, GEORGE S WISE FAC LIFE SCI, DEPT MOLEC MIROBIOL  
& BIOTECHNOL, RAMAT AVIV, ISRAEL; WEIZMANN INST SCI, DEPT BIOPHYS,

IL-76100 REHOVOT, ISRAEL  
 CYA REPUBLIC OF GEORGIA; ISRAEL  
 SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (FEB 1995) Vol. 50, No. 2, pp. 137-143.  
 ISSN: 0273-2289.  
 DT Article; Journal  
 FS LIFE; AGRI  
 LA ENGLISH  
 REC Reference Count: 20  
 \*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L4 ANSWER 6 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1995:738746 HCAPLUS  
 DN 123:136726  
 TI Production and characterization of \*\*\*cellulases\*\*\* and xylanases from the thermophilic ascomycete \*\*\*Thielavia\*\*\* terrestris 255b  
 AU Gilbert, Michel  
 CS Univ. of Ottawa, Ottawa, ON, Can.  
 SO (1992) 243 pp. Avail.: Univ. Microfilms Int., Order No. DANN93618  
 From: Diss. Abstr. Int. B 1995, 56(1), 216  
 DT Dissertation  
 LA English

L4 ANSWER 7 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 3  
 AN 92:174 SCISEARCH  
 GA The Genuine Article (R) Number: GQ108  
 TI CHARACTERIZATION OF THE ENZYMES PRESENT IN THE \*\*\*CELLULASE\*\*\* SYSTEM OF \*\*\*THIELAVIA\*\*\* -TERRESTRIS 255B  
 AU GILBERT M (Reprint); BREUIL C; SADDLER J N  
 CS FORINTEK CANADA CORP, DEPT BIOTECHNOL & CHEM, 800 MONTREAL RD, OTTAWA K1G 3Z5, ONTARIO, CANADA (Reprint)  
 CYA CANADA  
 SO BIORESOURCE TECHNOLOGY, (1992) Vol. 39, No. 2, pp. 147-153.  
 ISSN: 0960-8524.  
 DT Article; Journal  
 FS AGRI  
 LA ENGLISH  
 REC Reference Count: 13  
 \*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L4 ANSWER 8 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 AN 1992-00488 BIOTECHDS  
 TI Characterization of the enzymes present in the \*\*\*cellulase\*\*\* system of \*\*\*Thielavia\*\*\* terrestris 255B; characterization of cellulase complex produced by fermentation on culture medium with glucose, cellobiose, acid-swollen cellulose, solka Flocc BW300 or oat-spelt xylan C-source  
 AU Gilbert M; Breuil C; Saddler J N  
 CS Forintek-Canada  
 LO Biotechnology and Chemistry Department, Forintek Canada Corporation, 800 Montreal Road, Ottawa, Canada K1G 3Z5.  
 SO Bioresource Technol.; (1992) 39, 2, 147-54  
 DT Journal  
 LA English

L4 ANSWER 9 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1992:506880 HCAPLUS  
 DN 117:106880  
 TI Characterization of the enzymes present in the \*\*\*cellulase\*\*\* system of \*\*\*Thielavia\*\*\* terrestris 255B  
 AU Gilbert, Michel; Breuil, Colette; Saddler, J. N.  
 CS Biotechnol. Chem. Dep., Forintek Canada Corp., Ottawa, ON, K1G 3Z5, Can.  
 SO Bioresource Technology (1991), Volume Date 1992, 39(2), 147-54  
 CODEN: BIRTEB; ISSN: 0960-8524  
 DT Journal  
 LA English

L4 ANSWER 10 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1990:154151 HCAPLUS  
 DN 112:154151  
 TI The \*\*\*cellulase\*\*\* complex of the thermophilic ascomycete, \*\*\*Thielavia\*\*\* terrestris: production, mutation, and characterization of the component enzymes  
 AU Zitomer, Stephanie W.  
 CS UMDNJ, Rutgers, State Univ., New Brunswick, NJ, USA  
 SO (1989) 314 pp. Avail.: Univ. Microfilms Int., Order No. DA8923634

From: Diss. Abstr. Int. B 1990, 50(7), 2762-3  
DT Dissertation  
LA English

=> d 5

L4 ANSWER 5 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 2  
AN 95:190979 SCISEARCH  
GA The Genuine Article (R) Number: QL109  
TI ISOLATION AND PROPERTIES OF A THERMOSTABLE \*\*\*ENDOGLUCANASE\*\*\* FROM A  
THERMOPHILIC MUTANT STRAIN OF \*\*\*THIELAVIA\*\*\* -TERRESTRIS  
AU KVESITADZE E G (Reprint); LOMITASHVILI T B; KHUTSISHVILI M P; LAMED R;  
BAYER E A  
CS GEORGIAN ACAD SCI, INST PLANT BIOCHEM, TBILISI 380059, REP OF GEORGIA  
(Reprint); TEL AVIV UNIV, GEORGE S WISE FAC LIFE SCI, DEPT MOLEC MIROBIOL  
& BIOTECHNOL, RAMAT AVIV, ISRAEL; WEIZMANN INST SCI, DEPT BIOPHYS,  
IL-76100 REHOVOT, ISRAEL  
CYA REPUBLIC OF GEORGIA; ISRAEL  
SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (FEB 1995) Vol. 50, No. 2, pp.  
137-143.  
ISSN: 0273-2289.  
DT Article; Journal  
FS LIFE; AGRI  
LA ENGLISH  
REC Reference Count: 20  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

=> d 5 ab

L4 ANSWER 5 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 2  
AB A heat-stable enzyme was isolated from the \*\*\*cellulase\*\*\* complex  
of a thermophilic strain of the micromycete \*\*\*Thielavia\*\*\*  
terrestris. The purified enzyme exhibited both \*\*\*endoglucanase\*\*\* and  
xylanase activities and had a mol mass of 69,000 Daltons and an  
isoelectric point of 6.4. When the cells were grown at 48 degrees C, the  
initial activity of the purified enzyme using carboxymethylcellulose as a  
substrate was 150 nkat/mg and the Michaelis constant was 6.6 g/L. The heat  
stability of the enzyme was high, losing only 20% of the initial activity  
after a 6-h incubation at 65 degrees C. When cultures were grown on  
microcrystalline cellulose and xylose was added after 48 h of growth,  
endoglucanase and xylanase activities were more than doubled. Similar  
increases in these activities were observed by growing the cultures on  
straw.

=> d 11-20

L4 ANSWER 11 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1992:262244 BIOSIS  
DN PREV199293138569; BA93:138569  
TI PRODUCTION OF PECTOLYTIC AND CELLULOLYTIC ENZYMES BY THIELAVIA-BASICOLA  
IN-VITRO.  
AU SATTAR A [Reprint author]; ALAM M  
CS CENTRAL INST MED AROMATIC PLANTS, P B NO 1, P O RAM SAGAR MISRA NAGAR,  
LUCKNOW-226016  
SO Indian Journal of Plant Pathology, (1989) Vol. 7, No. 2, pp. 123-126.  
ISSN: 0970-342X.  
DT Article  
FS BA  
LA ENGLISH  
ED Entered STN: 23 May 1992  
Last Updated on STN: 23 May 1992

L4 ANSWER 12 OF 40 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 4  
AN 87:67877 LIFESCI  
TI Cellulase screening by iodine staining: An artefact.  
AU Zitomer, S.W.; Eveleigh, D.E.  
CS Dep. Biochem. and Microbiol., Cook Coll., Rutgers Univ., New Brunswick, NJ  
08903, USA  
SO ENZYME MICROB. TECHNOL., (1987) vol. 9, no. 4, pp. 214-216.  
DT Journal  
FS K; A; W  
LA English  
SL English

L4 ANSWER 13 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1988-06754 BIOTECHDS  
TI A comparison of the thermostability of cellulases from various  
thermophilic fungi;  
Thielavia terrestris, Aspergillus terreus, Thermoascus aurantiacus and  
Myceliophthora fergusii  
AU Wojtczak G; Breuil C; Yamada J; Saddler J N  
CS Forintek-Canada  
LO Biotechnology and Chemistry Department, Forintek Canada Corp., 800  
Montreal Road, Ottawa, Ontario K1G 3Z5, Canada.  
SO Appl.Microbiol.Biotechnol.; (1987) 27, 1, 82-87  
CODEN: EJABDD  
DT Journal  
LA English

L4 ANSWER 14 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
DUPLICATE 5  
AN 1986-08770 BIOTECHDS  
TI Production of cellulase;  
by Trichoderma reesei Thielavia terrestris or Sporotrichum  
cellulophilum on L-sorbose culture medium  
PA Shin-Nenryoyu-Develop.  
PI JP 61078384 21 Apr 1986  
AI JP 1984-202372 27 Sep 1984  
PRAI JP 1984-202372 27 Sep 1984  
DT Patent  
LA Japanese  
OS WPI: 1986-141763 [22]

L4 ANSWER 15 OF 40 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 6  
AN 86:22589 LIFESCI  
TI Production and localization of \*\*\*cellulases\*\*\* and beta -glucosidase  
from the thermophilic fungus \*\*\*Thielavia\*\*\* terrestris .  
AU Breuil, C.; Wojtczak, G.; Saddler, J.N.  
CS Biotechnol. and Chem. Dep., Forintek Canada Corp., 800 Montreal Rd.,  
Ottawa, Ont. K1G 3Z5, Canada  
SO BIOTECHNOL. LETT., (1986) vol. 8, no. 9, pp. 673-676.  
DT Journal  
FS K; A; W  
LA English  
SL English

L4 ANSWER 16 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
AN 86:549304 SCISEARCH  
GA The Genuine Article (R) Number: E1818  
TI PRODUCTION AND LOCALIZATION OF \*\*\*CELLULASES\*\*\* AND BETA-GLUCOSIDASE  
FROM THE THERMOPHILIC FUNGUS \*\*\*THIELAVIA\*\*\* -TERRESTRIS  
AU BREUIL C (Reprint); WOJTCZAK G; SADDLER J N  
CS FORINTEK CANADA CORP, DEPT BIOTECHNOL & CHEM, 800 MONTREAL RD, OTTAWA K1G  
3Z5, ONTARIO, CANADA (Reprint)  
CYA CANADA  
SO BIOTECHNOLOGY LETTERS, (1986) Vol. 8, No. 9, pp. 673-676.  
DT Article; Journal  
FS LIFE; AGRI  
LA ENGLISH  
REC Reference Count: 12

L4 ANSWER 17 OF 40 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 7  
AN 86:59366 LIFESCI  
TI Optimization of fermentation conditions for thermostable \*\*\*cellulase\*\*\*  
production by \*\*\*Thielavia\*\*\* terrestris .  
AU Margaritis, A.; Merchant, R.F.  
CS Dep. Chem. and Biochem. Eng., Univ. Western Ontario, London, Ont. N6A 5B9,  
Canada  
SO J. IND. MICROBIOL., (1986) vol. 1, no. 3, pp. 149-156.  
DT Journal  
FS K; A; W  
LA English  
SL English

L4 ANSWER 18 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
AN 87:260775 SCISEARCH  
GA The Genuine Article (R) Number: H0434  
TI OPTIMIZATION OF FERMENTATION CONDITIONS FOR THERMOSTABLE \*\*\*CELLULASE\*\*\*  
PRODUCTION BY \*\*\*THIELAVIA\*\*\* -TERRESTRIS

AU MARGARITIS A (Reprint); MERCHANT R F  
CS UNIV WESTERN ONTARIO, DEPT CHEM & BIOCHEM ENGN, LONDON N6A 5B9, ONTARIO,  
CANADA (Reprint)  
CYA CANADA  
SO JOURNAL OF INDUSTRIAL MICROBIOLOGY, (1986) Vol. 1, No. 3, pp. 149-156.  
DT Article; Journal  
FS AGRI  
LA ENGLISH  
REC No References

L4 ANSWER 19 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1988-00512 BIOTECHDS  
TI A comparison of the thermostability of cellulases from different  
thermophilic fungi;  
Thielavia terrestris, Sporotrichum thermophile, Aspergillus terreus,  
Thermoascus aurantiacus and Humicola sp. etc. (conference abstract)  
AU Breuil C; Wojtczak G; Saddler J N  
CS Forintek-Canada  
LO Biotechnology and Chemistry Department, Forintek Canada Corp., 800  
Montreal Road, Ottawa, Ontario, K1G 3Z5, Canada.  
SO Abstr.Can.Soc.Microbiol.; (1986) 36 Meet., 69  
DT Journal  
LA English

L4 ANSWER 20 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1986:183081 HCAPLUS  
DN 104:183081  
TI \*\*\*Cellulase\*\*\* production by species of Acrophialophora and  
\*\*\*Thielavia\*\*\*  
AU Sandhu, D. K.; Arora, D. S.  
CS Dep. Biol., Guru Nank Dev Univ., Amritsar, 143 005, India  
SO Indian Phytopathology (1985), 38(2), 267-9  
CODEN: IPHYAU; ISSN: 0367-973X  
DT Journal  
LA English

=> d 21-30

L4 ANSWER 21 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1985-11651 BIOTECHDS  
TI Effect of cultivation conditions of protein formation by the  
Chrysosporium sp. and Thielavia sp. micromycetes;  
for single cell protein production  
AU Bilai T I; Shabunina T I; Slyusarenko T P  
LO Institute of Microbiology and Virology, Academy of Sciences of the  
Ukrainian SSR, Kiev, USSR.  
SO Mikrobiol.Zh.; (1985) 47, 4, 92-94  
CODEN: MZHUDX  
DT Journal  
LA Russian

L4 ANSWER 22 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
DUPLICATE 8  
AN 1986-01019 BIOTECHDS  
TI Growth and cellulose-lytic activity of thermophilic fungi in the media  
with nonspecific substrates;  
\*\*\*cellulase\*\*\* complex from \*\*\*Thielavia\*\*\* Malbranchea  
pulchella Corynascus sepedonium and Trichoderma lignorum  
AU Bilai T I; Musich E G; Syrchin S A  
LO Institute of Microbiology and Virology, Academy of Sciences of the  
Ukrainian SSR, Kiev, USSR.  
SO Mikrobiol.Zh.; (1985) 47, 5, 62-68  
CODEN: MZHUDX  
DT Journal  
LA Russian

L4 ANSWER 23 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 9  
AN 1986:146215 BIOSIS  
DN PREV198681056631; BA81:56631  
TI COMPONENT COMPOSITION OF THE CELLULASE COMPLEX IN CERTAIN SPECIES OF  
THERMOPHILIC FUNGI.  
AU BILAI T I [Reprint author]; MUSICH E G; SYRCHIN S A  
CS INST MICROBIOL VIROL, ACAD SCI UKR SSR, KIEV, USSR  
SO Mikrobiologicheskii Zhurnal (Kiev), (1985) Vol. 47, No. 5, pp. 57-62.

CODEN: MZHUDX. ISSN: 0201-8462.  
DT Article  
FS BA  
LA RUSSIAN  
ED Entered STN: 25 Apr 1986  
Last Updated on STN: 25 Apr 1986

L4 ANSWER 24 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1987:70830 BIOSIS  
DN PREV198783039156; BA83:39156  
TI CELLULOLYTIC ACTIVITY OF THERMOPHILOUS FUNGI ISOLATED FROM SOILS.  
AU SANDHU D K [Reprint author]; BAGGA P S; SINGH S  
CS DEP OF BIOL, GURU NANAK DEV UNIV, AMRITSAR-143 005, INDIA  
SO Kavaka, (1985) vol. 13, No. 1, pp. 21-32.  
ISSN: 0379-5179.

DT Article  
FS BA  
LA ENGLISH  
ED Entered STN: 24 Jan 1987  
Last Updated on STN: 24 Jan 1987

L4 ANSWER 25 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1985:54884 BIOSIS  
DN PREV198528054884; BR28:54884  
TI PRODUCTION AND THERMAL STABILITY CHARACTERISTICS OF \*\*\*CELLULASE\*\*\*  
AND XYLANASE ENZYMES FROM \*\*\*THIELAVIA\*\*\* -TERRESTRIS.  
AU MARGARITIS A [Reprint author]; MERCHANT R  
CS CHEMICAL AND BIOCHEMICAL ENGINEERING, FAC ENGINEERING SCI, UNIV WESTERN  
ONTARIO, LONDON, ONTARIO, CANADA N6A 5B9  
SO Biotechnol. Bioeng. Symp., (1984) pp. 299-314. SCOTT, C. D. (ED.).  
BIOTECHNOLOGY AND BIOENGINEERING SYMPOSIUM, NO. 13. 5TH SYMPOSIUM ON  
BIOTECHNOLOGY FOR FUELS AND CHEMICALS; GATLINBURG, TENN., USA, MAY 10-13,  
1983. VIII+672P. JOHN WILEY AND SONS, INC.: NEW YORK, N.Y., USA. ILLUS.  
PAPER.  
Publisher: Series: Biotechnology and Bioengineering Symposium.  
CODEN: BIBSBR. ISSN: 0572-6565. ISBN: 0-471-88173-2.

DT Book  
FS Conference; (Meeting)  
LA BR  
ENGLISH

L4 ANSWER 26 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN DUPLICATE 10  
TI 1984-06370 BIOTECHDS  
Production and thermal stability characteristics of \*\*\*cellulase\*\*\*  
and xylanase enzymes from \*\*\*Thielavia\*\*\* terrestris;  
wheat straw hydrolysis analysis etc. (conference paper)  
AU Margaritis A; Merchant R  
LO Chemical and Biochemical Engineering, Faculty of Engineering Science, The  
University of Western Ontario, London, Ontario, Canada N6A 5B9.  
SO Biotechnol. Bioeng.; (1984) Symp. 13, 299-314  
CODEN: BIBIAU  
DT Journal  
LA English

L4 ANSWER 27 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1984:205494 HCAPLUS  
DN 100:205494  
TI Comparative study of cellulases and hemicellulases from four fungi:  
mesophiles Trichoderma reesei and Penicillium sp. and thermophiles  
Thielavia terrestris and Sporotrichum cellulophilum  
AU Durand, Henri; Soucaille, Philippe; Tiraby, Gerard  
CS Lab. Rech., CAYLA, Toulouse, 31400, Fr.  
SO Enzyme and Microbial Technology (1984), 6(4), 175-80  
CODEN: EMTED2; ISSN: 0141-0229  
DT Journal  
LA English

L4 ANSWER 28 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1984-04353 BIOTECHDS  
TI Detection and differentiation of cellulase components in polyacrylamide  
gels;  
Microbispora bispora Penicillium verruculosum Thielavia terrestris and  
Trichoderma reesei (conference abstract)  
AU Bartley T D; Eveleigh D E; Murphy-Holland K; Frein M; Zitomer S  
LO Dept. Biochem., Rutgers University, New Brunswick, NJ., U.S.A.



SO Abstr.Annu.Meet.Am.Soc.Microbiol; (1984) 84 Meet., 171  
DT Journal  
LA English

L4 ANSWER 29 OF 40 LIFESCI COPYRIGHT 2004 CSA on STN  
AN 84:8983 LIFESCI  
TI Production and thermal stability characteristics of \*\*\*cellulase\*\*\*  
and xylanase enzymes from \*\*\*Thielavia\*\*\* terrestris .  
FIFTH SYMPOSIUM ON BIOTECHNOLOGY FOR FUELS AND CHEMICALS.  
AU Margaritis, A.; Merchant, R.; Scott, C.D. [editor]  
CS Chem. and Biochem. Eng., Fac. Eng. Sci., Univ. Western Ontario. London,  
Ont., Canada N6A 5B9  
SO BIOTECHNOL. BIOENG. SYMP., (1984) pp. 299-314.  
Meeting Info.: 5. Symposium on Biotechnology for Fuels and Chemicals.  
Gatlinburg, TN (USA). 10-13 May 1983.  
ISBN: 0-471-88173-2.  
DT Book  
TC Conference  
FS W; A; K  
LA English  
SL English

L4 ANSWER 30 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 11  
AN 1985:292698 BIOSIS  
DN PREV198579072694; BA79:72694  
TI ENZYMOLOGICAL STUDIES ON LITTER-COLONIZING ASCOMYCETES.  
AU ANEJA K R [Reprint author]  
CS DEPARTMENT OF BOTANY, KURUKSHETRA UNIVERSITY, KURUKSHETRA  
SO Proceedings of the Indian National Science Academy Part B Biological  
Sciences, (1983) Vol. 49, No. 6, pp. 735-739.  
CODEN: PIBSBB. ISSN: 0073-6600.  
DT Article  
FS BA  
LA ENGLISH

=> d 31-40

L4 ANSWER 31 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
AN 84:205854 SCISEARCH  
GA The Genuine Article (R) Number: SM639  
TI PRODUCTION AND THERMAL-STABILITY CHARACTERISTICS OF \*\*\*CELLULASE\*\*\*  
AND XYLANASE ENZYMES FROM \*\*\*THIELAVIA\*\*\* -TERRESTRIS  
AU MARGARITIS A (Reprint); MERCHANT R  
CS UNIV WESTERN ONTARIO, FAC ENGN SCI, LONDON N6A 5B9, ONTARIO, CANADA  
(Reprint)  
CYA CANADA  
SO BIOTECHNOLOGY AND BIOENGINEERING, (1983) , pp. 299-314.  
DT Article; Journal  
FS LIFE; ENGI  
LA ENGLISH  
REC Reference Count: 40

L4 ANSWER 32 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1983:195056 HCAPLUS  
DN 98:195056  
TI Regulatory mechanisms in Thielavia terrestris  
AU Tuse, D.; Hokama, L.  
CS Biotechnol. Res. Dep., SRI Int., Menlo Park, CA, USA  
SO Report (1982), DOE/ER/10697-T1; Order No. DE83002858, 37 pp. Avail.: NTIS  
From: Energy Res. Abstr. 1983, 8(6), Abstr. No. 13134  
DT Report  
LA English

L4 ANSWER 33 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
DUPLICATE 12  
AN 1982-02900 BIOTECHDS  
TI A method for determining the transforming activity of cellulases from  
Micromycetes;  
based on the increase in protein nitrogen of the mycelium after growth  
on a culture medium containing cellulose as sole C-source  
AU Bilai T I; Musich E G  
LO Institute of Microbiology and virology, Academy of Sciences of the  
Ukrainian SSR, USSR.  
SO Mikrobiol.Zh.; (1982) 44, 75-76

DT CODEN: MZHUDX  
LA Journal  
LA Russian

L4 ANSWER 34 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1981:440816 HCAPLUS  
DN 95:40816  
TI Cellulase formation by molds grown on cellulose-containing substrates  
AU Okunev, O. N.; Bilai, T. I.; Musich, E. G.; Golovlev, E. L.  
CS Inst. Biochem. Physiol. Microorg., Pushchino, USSR  
SO Prikladnaya Biokhimiya i Mikrobiologiya (1981), 17(3), 408-14  
CODEN: PBMIK; ISSN: 0555-1099  
DT Journal  
LA Russian

L4 ANSWER 35 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1983:52193 BIOSIS  
DN PREV198324052193; BR24:52193  
TI \*\*\*CELLULASE\*\*\* OF THE THERMOPHILIC FUNGUS \*\*\*THIELAVIA\*\*\*  
-TERRESTRIS PRODUCTION AND CHARACTERIZATION.  
AU ZITOMER S W [Reprint author]; MONTENECOURT B S; EVELEIGH D E  
CS DEP BIOCHEM AND MICROBIOL, RUTGERS UNIV, NEW BRUNSWICK, NJ, USA  
SO Bulletin New Jersey Academy of Science, (1981) Vol. 26, No. 2, pp. 62.  
Meeting Info.: 26TH ANNUAL MEETING OF THE NEW JERSEY ACADEMY OF SCIENCE  
AND AFFILIATED SOCIETIES, MAR. 28, 1981. BULL N J ACAD SCI.  
ISSN: 0028-5455.  
DT Conference; (Meeting)  
FS BR  
LA ENGLISH

L4 ANSWER 36 OF 40 NTIS COPYRIGHT 2004 NTIS on STN  
AN 1981(45):04069 NTIS Order Number: PB81-167058/XAB  
TI Biosources Digest, Journal on Biomass Utilization, Volume 2, Number 4.  
AU Sobel, H.  
CS NEUS, Inc., Santa Monica, CA.  
Sponsor: National Science Foundation, Washington, DC. Engineering and  
Applied Science. (063204000)  
NR PB81-167058/XAB; NSF/RA-800383  
58p; Oct 1980  
NC Contract(s): NSF-PFR77-12500  
DT Report  
CY United States  
LA English  
NTE See also Volume 2, Number 2, PB80-210214.  
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Springfield, VA, 22161, USA.  
NTIS Prices: PC A04/MF A01  
OS GRA&I8114

L4 ANSWER 37 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 13  
AN 1980:636959 HCAPLUS  
DN 93:236959  
TI \*\*\*Cellulase\*\*\* enzymes from \*\*\*Thielavia\*\*\* terrestris  
IN skinner, wilfred Aubrey; Takenishi, Shigeyuki  
PA SRI International, USA  
SO Ger. Offen., 20 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3013627	A1	19801016	DE 1980-3013627	19800409
	US 4243752	A	19810106	US 1979-28500	19790409
	GB 2047710	A	19801203	GB 1980-11627	19800408
	GB 2047710	B2	19830803		
	FI 8001137	A	19801010	FI 1980-1137	19800409
	FI 69484	B	19851031		
	FI 69484	C	19960210		
	FR 2453895	A1	19801107	FR 1980-8021	19800409
	JP 55144886	A2	19801112	JP 1980-45776	19800409
	JP 57033947	B4	19820720		
	CA 1143683	A1	19830329	CA 1980-349464	19800409
PRAI	US 1979-28500		19790409		

L4 · ANSWER 38 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1979:591379 HCAPLUS  
 DN 91:191379  
 TI, Enzyme and its production  
 IN Skinner, Wilfred Aubrey; Tokuyama, Fumitake  
 PA SRI International, USA  
 SO Brit., 8 pp.  
 CODEN: BRXXAA  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 1546544	A	19790411	GB 1977-6943	19770218
PRAI	GB 1977-6943		19770218		

L4 ANSWER 39 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
 AN 79:387537 SCISEARCH  
 GA The Genuine Article (R) Number: HJ685  
 TI ACTIVITY PROFILES OF THE THERMSTABLE \*\*\*CELLULASE\*\*\* OF  
 \*\*\*THIELAVIA\*\*\* -TERRESTRIS  
 AU TUSE D (Reprint); CHOU T; MASON B J; SKINNER W A  
 CS SRI INT, MENLO PK, CA, 94025  
 CYA USA  
 SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (1979) Vol. 1979,  
 No. SEP, pp. 23.  
 DT Conference; Journal  
 LA ENGLISH  
 REC No References

L4 ANSWER 40 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 14  
 AN 1978:440886 HCAPLUS  
 DN 89:40886  
 TI \*\*\*Cellulase\*\*\* by a thermophilic \*\*\*thielavia\*\*\* terrestris  
 IN Skinner, Wilfred A.; Tokuyama, Fumitake  
 PA Stanford Research Institute, USA  
 SO U.S., 6 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4081328	A	19780328	US 1976-721535	19760908
	CA 1075181	A1	19800408	CA 1977-269561	19770112
	JP 58011195	B4	19830301	JP 1977-8272	19770129
PRAI	US 1975-624865		19751023		
	US 1976-721535		19760908		

=> dis his

(FILE 'HOME' ENTERED AT 21:28:23 ON 02 JUL 2004)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,  
 NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 21:28:32 ON 02 JUL 2004

L1 745 S THIELAVIA  
 L2 52 S L1 (5A)(ENDOGLUCANASE OR CELLULASE)  
 L3 69 S L1 (10A)(ENDOGLUCANASE OR CELLULASE)  
 L4 40 DUP REM L3 (29 DUPLICATES REMOVED)

=> log h

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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

99.01

99.22

SESSION WILL BE HELD FOR 60 MINUTES

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WEST Search History

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DATE: Friday, July 02, 2004

Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,USOC,EPAB,JPAB; PLUR=YES; OP=ADJ		
<input type="checkbox"/>	L8	6001639	7
<input type="checkbox"/>	L7	4081328.pn.	1
<input type="checkbox"/>	L6	4435307.pn.	2
<input type="checkbox"/>	L5	4435307	683
<input type="checkbox"/>	L4	L2 and thielavia	4
<input type="checkbox"/>	L3	L2 with thielavia	0
<input type="checkbox"/>	L2	L1 with (endoglucanase or cellulase)	161
<input type="checkbox"/>	L1	detergent with pH	10707

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20030092097 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 8

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092097  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030092097 A1

TITLE: CELLULASE VARIANTS

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ANDERSEN, KIM VILBOUR	COPENHAGEN		DK	
SCHULEIN, MARTIN	COPENHAGEN		DK	
CHRISTIANSEN, LARS	VIRUM		DK	
DAMGAARD, BO	LAUSANNE		CH	
VON DER OSTEN, CLAUS	LYNGBY		DK	

US-CL-CURRENT: [435/69.1](#); [435/195](#), [435/200](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Pub No	Drawings
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☐ 2. Document ID: US 20030054539 A1

L3: Entry 2 of 8

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054539  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030054539 A1

TITLE: Endoglucanases

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schulein, Martin	Copenhagen		DK	
Dela, Hanne	Copenhagen		DK	
Andersen, Lene Nonboe	Allerod		DK	

h e b b g e e f e ef b e

Lassen, Soren Flensted	Kobenhavn N	DK
Kauppinen, Markus Sakari	Kobenhavn N	DK
Lange, Lene	Valby	DK
Nielsen, Ruby Ilum	Farum	DK
Takagi, Shinobu	Ichikawa-shi	JP
Ihara, Michiko	Chiba-shi	JP

US-CL-CURRENT: 435/263; 435/210

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6425975 B1

L3: Entry 3 of 8

File: USPT

Jul 30, 2002

US-PAT-NO: 6425975

DOCUMENT-IDENTIFIER: US 6425975 B1

TITLE: Process for concentrating soluble and colloidal substances in process waters

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 6387690 B1

L3: Entry 4 of 8

File: USPT

May 14, 2002

US-PAT-NO: 6387690

DOCUMENT-IDENTIFIER: US 6387690 B1

TITLE: Endoglucanases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 6270968 B1

L3: Entry 5 of 8

File: USPT

Aug 7, 2001

US-PAT-NO: 6270968

DOCUMENT-IDENTIFIER: US 6270968 B1

TITLE: Method of providing a hybrid polypeptide exhibiting an activity of interest

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6146428 A

L3: Entry 6 of 8

File: USPT

Nov 14, 2000

US-PAT-NO: 6146428

DOCUMENT-IDENTIFIER: US 6146428 A

TITLE: Enzymatic treatment of denim

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 7. Document ID: US 6001639 A

L3: Entry 7 of 8

File: USPT

Dec 14, 1999

US-PAT-NO: 6001639

DOCUMENT-IDENTIFIER: US 6001639 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Endoglucanases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 8. Document ID: US 5958082 A

L3: Entry 8 of 8

File: USPT

Sep 28, 1999

US-PAT-NO: 5958082

DOCUMENT-IDENTIFIER: US 5958082 A

TITLE: Garments with considerable variation in abrasion level

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
endoglucanase with thielavia	8

Display Format:  [Previous Page](#)[Next Page](#)[Go to Doc#](#)

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20030092097 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 6

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092097  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030092097 A1

TITLE: CELLULASE VARIANTS

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ANDERSEN, KIM VILBOUR	COPENHAGEN		DK	
SCHULEIN, MARTIN	COPENHAGEN		DK	
CHRISTIANSEN, LARS	VIRUM		DK	
DAMGAARD, BO	LAUSANNE		CH	
VON DER OSTEN, CLAUS	LYNGBY		DK	

US-CL-CURRENT: [435/69.1](#); [435/195](#), [435/200](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Drawings
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☐ 2. Document ID: US 20030054539 A1

L4: Entry 2 of 6

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054539  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030054539 A1

TITLE: Endoglucanases

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schulein, Martin	Copenhagen		DK	
Dela, Hanne	Copenhagen		DK	
Andersen, Lene Nonboe	Allerod		DK	

h e b b g e e e f e ef b e



Lassen, Soren Flensted	Kobenhavn N	DK
Kauppinen, Markus Sakari	Kobenhavn N	DK
Lange, Lene	Valby	DK
Nielsen, Ruby Ilum	Farum	DK
Takagi, Shinobu	Ichikawa-shi	JP
Ihara, Michiko	Chiba-shi	JP

US-CL-CURRENT: 435/263; 435/210

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6425975 B1

L4: Entry 3 of 6

File: USPT

Jul 30, 2002

US-PAT-NO: 6425975

DOCUMENT-IDENTIFIER: US 6425975 B1

TITLE: Process for concentrating soluble and colloidal substances in process waters

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 4. Document ID: US 6270968 B1

L4: Entry 4 of 6

File: USPT

Aug 7, 2001

US-PAT-NO: 6270968

DOCUMENT-IDENTIFIER: US 6270968 B1

TITLE: Method of providing a hybrid polypeptide exhibiting an activity of interest

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 5. Document ID: US 6146428 A

L4: Entry 5 of 6

File: USPT

Nov 14, 2000

US-PAT-NO: 6146428

DOCUMENT-IDENTIFIER: US 6146428 A

TITLE: Enzymatic treatment of denim

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 6. Document ID: US 5958082 A

L4: Entry 6 of 6

File: USPT

Sep 28, 1999

US-PAT-NO: 5958082

DOCUMENT-IDENTIFIER: US 5958082 A

TITLE: Garments with considerable variation in abrasion level

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L3 not L1	6

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Generate Collection

Print

L4: Entry 2 of 4

File: USPT

Apr 20, 2004

DOCUMENT-IDENTIFIER: US 6723549 B2

TITLE: Cellulases, the genes encoding them and uses thereof

Brief Summary Text (14):

While it has become popular to use cellulases in the textile industry, simply changing the cellulase mixture that is used may produce a different finish. These problems have focused increasing attention on the search for reproducible mixtures of cellulases with desired properties. Thus there is a clear demand especially in the textile and detergent industry for novel cellulases active at neutral and alkaline pH values, not compromising the strength of fabrics, with good cleaning and/or fabric care and harshness reducing properties.

Detailed Description Text (4):

ALKO4237, Melanocarpus albomyces (=Myriococcum albomyces=Thielavia albomyces; Guarro et al., 1996, Mycol. Res. 100(1):75.) was deposited as CBS 685.95 on Oct. 11, 1995, at the Centraalbureau voor Schimmelcultures, P.O. Box 273, 3740 AG BAARN.

Detailed Description Paragraph Table (19):

TABLE XVIII Softness, weight loss and visual appearance of the aged fleecy knits after 1 to 3 repeated washing times with or without cellulases in detergents. Before washings pH of the 0.25% Color Detergent Solution was 7.9. enzyme visual dosage as pH appearance mg protein/ washing after weight right preparation g fabric times washings loss % softness side reverse -- -- 1 ND 0 1 1 ALKO4237 20 1 ND 0.61 100%: no difference 1 1.5 20 K\* 5 1 ND 0 100%: no difference 1.5 1.5 -- -- 2 7.9 0.10 1 1 20 K\* 5 2 7.7 0.46 100%: softer with cellulase 2.5 2.2 50 K\* 5 2 7.7 0.26 100%: no difference 1 1.2 50 K\* 15 2 7.3 0.49 100%: no difference 1 1.3 -- -- 3 ND 0.31 1 1 20 K\* 5 3 ND 0.88 100%: softer with cellulase 3.0 2.2 ND = not determined  
\*= 20 K- or 50 K-cellulase

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

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Print

L4: Entry 3 of 4

File: USPT

Feb 13, 2001

DOCUMENT-IDENTIFIER: US 6187740 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Alkaline detergent compositions comprising a specific cellulase

Brief Summary Text (2):

The present invention relates to granular bleach-containing laundry detergent compositions comprising a specific cellulase and having a 1% solution pH between 7.5 and 10.

Brief Summary Text (7):

EP-A-0 269 168 discloses optimized detergent compositions containing cellulase, which are formulated at a mild alkaline pH range and provide combined fabric cleaning, fabric softening, and fabric care performance.

Brief Summary Text (11):

Current granular bleach-containing laundry detergent compositions possess a pH 1% solution of about 10.5 allowing maximum bleach performance via optimum perhydrolysis obtained at said pH. The cleaning performance of such bleach-containing laundry detergent compositions is known to diminish with the reduction of pH. A lower pH is nevertheless necessary to obtain full enzymatic performance of cellulase containing detergents.

Brief Summary Text (13):

It has been surprisingly found that granular bleach-containing laundry detergent compositions comprising a specific cellulase and having a 1% solution pH between 7.5 and 10, provide optimum cleaning and whiteness performance benefits.

Brief Summary Text (16):

The present invention relates to granular bleach-containing laundry detergent compositions comprising a specific cellulase and having a 1% solution pH between 7.5 and 10, thereby providing superior cleaning and whiteness performance benefit.

Brief Summary Text (21):

It has been surprisingly found that granular bleach-containing laundry detergent compositions comprising a specific cellulase and having a 1% solution pH between 7.5 and 10, provide optimum cleaning and whiteness performance benefits.

Brief Summary Text (28):

Other suitable cellulases are the EGIII from *Trichoderma longibrachiatum* described in WO94/21801, Genencor, published Sep. 29, 1994. More preferred cellulase for the laundry detergent compositions of the present invention is a cellulase derived from *Trichoderma* spp, having an approximate molecular weight between 22 and 27 kDa, an isoelectric point between 7.2 and 8.0 and a pH optimum between 5.5 and 6.0.

Brief Summary Text (179):

The other cellulases usable in the present invention include both bacterial or fungal cellulases. Preferably, they will have a pH optimum of between 5 and 12 and an activity above 50 CEVU (Cellulose Viscosity Unit). Suitable cellulases are disclosed in U.S. Pat. No. 4,435,307, Barbesgoard et al, J61078384 and WO96/02653 which discloses fungal cellulase produced respectively from *Humicola insolens*,

Trichoderma, Thielavia and Sporotrichum. EP 739 982 describes cellulases isolated from novel Bacillus species. Suitable cellulases are also disclosed in GB-A-2.075.028; GB-A-2.095.275; DE-OS-2.247.832 and WO95/26398.

## CLAIMS:

1. A granular bleach-containing laundry detergent composition having a 1% solution pH between about 7.5 and 10 comprising a fungal cellulase, having an optimum pH ranging from about 4 to about 10 and no cellulose binding domain and wherein said cellulase is further characterised by exhibiting the following properties:

- (a) derived from Trichoderma spp;
- (b) approximate molecular weight between 22 and 27 kDa;
- (c) iso-electric point between about 7.2 and about 8.0; and
- (d) pH optimum between about 5.5 and about 6.0.

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